

UNIVERSITY OF NIŠ

Course Unit Descrip	otor	Faculty	Faculty of Me	chanical Engineering	
GENERAL INFORMATION					
Study Program	Mechanical Engineering				
Study Module (if applicable)	-				
Course Title	Multidomain simulation and Model-Based Design in Product Development				
Level of Study	☐ Bachelor	☐ Mas	ter's	⊠ Doctoral	
Type of Course	☐ Obligator	y 🗵 Elec	tive		
Semester	☐ Autumn	⊠ Sprii	ng		
Year of Study	I				
Number of ECTS Allocated	10				
Name of Lecturer/Lecturers	Anđelković R. Boban, Miroslav Mijajlović				
Teaching Mode	☐ Lectures	☐ Grou	p tutorials	☐ Individual tutorials	
	☐ Laborato	ry work 🛭 🖾 Proje	ct work	⊠ Seminar	
	☐ Distance l	earning Blend	ded learning	☐ Other	
Purpose and Overview (max. 5 ser	ntences)				
				f simulation of mechanical systems. The ds. Introduce students to the appropriate	
Syllabus (brief outline and summa	ry of topics, r	max. 10 sentences)			
Recommendations for the use and method (FEM). Boundary Eleme optimization. Basic classes of optin	d limitations of ent Method nization meth uter graphics,	of simulation methoo (BEM). Simulation nods. Six Sigma analy , 3D graphics , virtual	ls. Finite diffe of mechanic sis. Robust de	nodel. Allocation of simulation methods. erence and finite volume. Finite element cal assemblies. Optimization. Planning sign. Integration of simulation methods. augmented reality (AR). Rapid product	
Language of Instruction					
⊠Serbian (complete course)	☐ English (complete course) ☐ Other(complete course)				
☐ Serbian with English mentoring	□Serbi	an with other mentor	ing		
Assessment Methods and Criteria	1				
Pre exam Duties	Points	Final Exam	Points		
Activity During Lectures	o	Written Examination	on o		
Practical Teaching	o	Oral Examination	50		
Teaching Colloquia	50	Overall Sum	100		
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*Final examination mark is formed in accordance with the Institutional documents						
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